Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
W	Sqm	9	0.90	0.60		4.86		
Front	Sqm	9	0.90		0.10	0.81		
Sides	Sqm	18	0.60		0.10	1.08		
Deduction								
W	Sqm	10	1.8		-1.6	-14.4		
		(10*1.8*1.6)/2=14.4						
WD	Sqm	4	1.2		-1.6	-3.84		
		(4*1.2*1.6)/2=3.84						
W	Sqm	9	0.6		-0.6	-1.62		
Third Floor								
Head room								
	Sqm	1	6.6		2.55	16.83		
	Sqm	1	6.6		1.9	12.54		
	Sqm	2	3.75		2.23	16.68		
Water Tank Room								
	Sqm	2	3.3		3	19.8		
	Sqm	2	4		3	24		
Parapet wall	Sqm	2	36.05		1.3	93.73		
Deduction								
DS	Sqm	2	1.2		2.1	-5.04		
W	Sqm	1	1.2		1.2	-1.44		
Deduction								
DS	Sqm	2	1.2		2.1	-5.04		
W	Sqm	1	1.2		1.2	-1.44		
			Sub total			885.592		
Internal Wall putty								
Ground Floor								
Kitchen	Sqm	1	31.20		0.90	28.08		
Gas bank	Sqm	1	9.20		0.90	8.28		
Store Room	Sqm	1	11.8		0.90	10.62		
Dinning Hall	Sqm	1	45.73		0.90	41.157		
Lobby	Sqm	1	13.70		0.90	12.33		
Column	Sqm	4	1.30		0.90	4.68		
		(9*0.6*0.6)/2=1.62						
Lobby								
	Sqm	1	13		0.9	11.7		
	Sqm	1	4.95		0.9	4.455		
	Sqm	1	4.5		0.9	4.05		
near lobby	Sqm	2	1.85		2.1	7.77		
Gents Toilet	Sqm	1	18.5		0.9	16.65		
Ladies Toilet	Sqm	1	18.5		0.9	16.65		
near Hand wash Basin	Sqm	1	9.1		0.9	8.19		
Celling								
Ground Floor Roof	Sqm	1	20.7	14.6		302.22		
Deduction								
Staircase	Sqm	1	3.10	-3.05		-9.46		
W	Sqm	8	0.6		0.6	-2.88		

Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
First Floor								
Lobby	Sqm	1	31.20		0.90	28.08		
Office	Sqm	1	14.90		0.90	13.41		
Hall	Sqm	1	32.30		0.90	29.07		
Room	Sqm	2	12.20		0.90	21.96		
Stage	Sqm	1	25.52		0.90	22.97		
Column	Sqm	2	1.30		0.90	2.34		
	Sqm	2	0.60		0.90	1.08		
Toilets	Sqm	2	8.4		0.9	15.12		
Ceiling								
First Floor Roof								
	Sqm	2	16.15	3.1		100.13		
Lobby	Sqm	1	14.60	4.3		62.78		
Entrance portico Slab	sqm	1	3.8	5.5		20.9		
Deduction								
Staircase	Sqm	1	3.10	-3.05		-9.46		
W	Sqm	2	0.6		0.6	-0.72		
Second Floor								
Hall	Sqm	1	50.90		0.90	45.81		
stage	Sqm	1	15.75		3.00	47.25		
Room	Sqm	2	15.50		3.00	93.00		
Room	Sqm	3	18.20		3.00	163.80		
Room	Sqm	1	19.8		3.00	59.40		
Room	Sqm	1	12.8		3.00	38.40		
column	Sqm	6	1.3		0.90	7.02		
near Staircase	Sqm	1	1.9		0.9	1.71		
Toilets								
	Sqm	1	8.4		0.9	7.56		
	Sqm	5	6		0.9	27		
	Sqm	1	6.2		0.9	5.58		
Ceiling								
Second Floor Roof	Sqm	1	20.7	14.6		302.22		
Deduction								
Staircase	Sqm	1	3.10	-3.05		-9.46		
W	Sqm	10	1.8		-1.6	-28.80		
D	Sqm	7	0.9		-2.1	-13.23		
W	Sqm	7	0.6		0.6	-2.52		
Third floor								
Head room								
	Sqm	1	6.6		2.55	16.83		
	Sqm	1	6.6		1.9	12.54		
	Sqm	2	3.75		2.23	16.68		
Water Tank Room								
	Sqm	2	3.3		3	19.8		
	Sqm	2	4		3	24		
Ceiling	Sqm	1	3.3		4	13.2		
Deduction								
D6	Sqm	2	1.2		2.1	-5.04		
W	Sqm	1	1.2		1.2	-1.44		
			Sub Total			1613.475		
Basic rate							56.00	
Area weightage 8%							4.48	

Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
Total						**2499.07**	**60.48**	**151143.57**
KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer. PgNo. 117, I.No. 15.51.2								
Internal Painting	Sqm	Internal Wall putty				1613.475		
		Celing				-752.19		
Basic rate							90.00	
Area weightage 8%							7.2	
Total						**861.29**	**97.20**	**83717.39**
Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall suface with wire brush of medium size emery stone to remove all the loosely adhering particales Pg No 125,Item No15.105								
External Painting	Sqm	Same as External Wall putty				885.592		
Basic rate							348.00	
Area weightage 8%							27.84	
Total						**885.592**	**375.84**	**332840.90**
KSRB 15-14.1 : Extra over Item 15-14.1 for applying oil bound washable distemper on ceiling and / or sloping roof as per specifications.Pg No 117,Item No15.49.2								
Ceiling	Sqm	Same as celing Wall putty				752.19		
Basic rate							71.00	
Extra over Item 15-14.1							5.00	
sub total							76.00	
Area weightage 8%							6.08	
Total						**752.19**	**82.08**	**61739.34**
KSRB 7.9 : Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications.Specification No. KBS 7.12 Pg No.32 Item No.7.9								
Third floor								
W1	kgs	1			30.24	30.24		
			21kg per sqm 1.2*1.2*21=30.24					
Basic rate							78.00	
An additional rate of Rs.5/sqm per floor may be added for every additional floor							15.00	
sub total							93.00	
Area weightage 8%							7.44	
Total						**30.24**	**100.44**	**3037.31**

Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. Pg no:121.Item no:15.74								
Ground Floor								
W	sqm	11	1.8		1.6	31.68		
W1	sqm	4	1.20		1.60	7.68		
V	sqm	8	0.60		0.60	2.88		
First Floor								
W	sqm	13	1.8		1.6	37.44		
W1	sqm	2	1.2		1.6	3.84		
V	sqm	2	0.6		0.6	0.72		
Second Floor								
W	sqm	9	1.8		1.6	25.92		
W'	sqm	1	2.75		0.65	1.78		
W1	sqm	2	1.2		1.6	3.84		
V	sqm	7	0.6		0.6	2.52		
Third floor	sqm							
W	sqm	1	1.2		1.2	1.44		
For window and ventilators	sqm	1	window qty+ventilator qty			119.74		
Painting for Grill Works	Sqm		window qty			116.14		
Basic rate							82.00	
Area weightage 8%							6.56	
Total						**235.88**	**88.56**	**20889.53**
KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.5)									
Flagging concrete arround building	Cum							
Northen side	Cum	1	12	34	0.075	30.6		
southernside	Cum	1	27	34	0.075	68.85		
EasternSide	Cum	1	15	6	0.075	6.75		
WesternSide	Cum	1	15	6.94	0.075	7.8		
Temple Front side	Cum	1	10	12	0.075	9		
Basic rate							5542	
Area weightage 8%							443.36	
Total						**123**	**5985.36**	**736199.28**

Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
Pg.No.147 Item No.19.60 KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305.								
FillingArround Building Area								
Northen side	Cum	1	12	34	0.9	367.2		
southernside	Cum	1	27	34	0.9	826.2		
EasternSide	Cum	1	15	6	0.9	81		
WesternSide	Cum	1	15	6.94	0.9	93.69		
Basic rate							302.00	
Area weightage 8%							24.16	
Total						**1368.09**	**326.16**	**446216.2344**
							Total Amount	**5034009.60**

CERTIFICATES

1. The work spot has been inspected and found to be necessary.
2. This estimate is prepared as per KPWD SR. of 2016-17 & Approved Rates.
3. The provisions were made in this estimate are necessary and adequate.
4. This works come under B.B.M.P. limits.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

28/6/19

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF HEAD ROOM, OVERHEAD TANK PROVIDING SANITARY WATER SUPPLY CONNECTIONS AND ELECTRICAL WORKS TO MARRIAGE COMMUNITY HALL BUILDING AT CHIKKABETTAHALLI IN WARD NO. 03

1 Sump

							Est.Cost.Rs.	**172403**
Sl No	**Description of Item**	**Unit**	**No**	**L**	**B**	**D**	**QTY**	**Rate**	**Amount**
1	KSRB 2-2.5 : Excavation by manual means for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width in Hard Rock not exceeding 1.5 m. in depth including Stacking the excavated stuff from edges of excavation with lead upto 50m including cost of explosives, labour and HOM of equipment complete as per specifications. specification. No. KBS 2.1.d / 2.3.4 / 2.18 / 2.19 (P.No. 5/I.No. 2.7)								
	For sump	cum	1	4.10	2.70	2.00	22.14		
	Basic rate							513.00	
	Area weightage 8%							41.04	
	Total						**22.14**	**554.04**	**12266.45**
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.12 Item No 4.3								
	For sump	Cum	1	4.10	2.70	0.10	1.11		
	Basic rate							4867.00	
	Area weightage 8%							389.36	
	Total						**1.11**	**5256.36**	**5818.79**
3	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. specification. No. KBS 2.9 Pg No.6 Item No.2.10								
	Filling in foundations								
	Excavated earth	Cum	From SL no 1				**22.14**		
	Sump Quantity								
	Bottom	Cum	1	4.10	2.70	0.25	2.77		
	Sump walls	Cum	2	4.10	0.15	1.60	1.97		
		Cum	2	2.70	0.15	1.60	1.30		
	Top slab	Cum	1	4.10	2.70	0.15	1.66		

Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
						7.69		
Basic rate							127.00	
Area weightage 8%							10.16	
Total						14.45	137.16	1981.69
KSRB 4-6.1 : Providing and removing **centering, shuttering, strutting, propping etc.**, and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, Pg No 15, Item No-4.28								
Sump walls	Sqm	4	4.10		1.60	26.24		
	Sqm	4	2.70		1.60	17.28		
Basic rate							231.00	
Area weightage 8%							18.48	
Total						43.52	249.48	10857.37
KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 7 mtrs. Specification No. KBS 4.6.2, Item No. 4.29.4, Page No. 15								
Sump Top Slab	Sqm	1	4.10	2.70		11.07		
Basic rate							890.00	
Area weightage 8%							71.20	
Total						11.07	961.20	10640.48
KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and First Floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.KBS 4.1, 4.6, Pg No 13, Item no.4.10								
For sump								
Bottom slab	Cum	1	4.10	2.70	0.15	1.66		
Sump walls	Cum	2	4.10	0.15	1.60	1.96		
	Cum	2	2.70	0.15	1.60	1.29		
Cover slab	Cum	1	4.10	2.70	0.15	1.66		
Basic rate							6221.00	
Area weightage 8%							497.68	

Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
Total						**6.57**	**6718.68**	**44145.09**
KSRB 4.9.2 : Providing **T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding** wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Pg No.17 Item No.4.46.2								
Sump						6.57		
	kg	Steel assumed 130 Kg/Cum of Concrete				854.17		
Basic rate							60607.00	
Area weightage 8%							4848.56	
Total	**tonne**					**0.85**	**65455.56**	**55909.85**
KSRB 12-6.1 : Providing 20mm square M.S footrest and fixing in manhole Nos 232.00 with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 12.4.6Pg No. 73 item no. 11.44								
For sump	No.s	4				4.00		
Basic rate							262.00	
Area weightage 8%							20.93	
Total						**4.00**	**282.96**	**1131.84**
Pg No 134,Item No17.4 Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge.								
EARTH	Cum					7.69		
unloading item	Cum						68	
Basic rate for haulage of materials as per item No. 17.4	t.km	For surface roads exluding Basic rate loading & unloading					2.5	
Average Weight of Granite Stones (2.63 Tons/cum)	For2Kms =20x2.63x2.5						131.50	
Basic rate							202.00	
Area weightage 8%							16.16	
						7.69	218.16	**1678.09**

Description of Items	Unit	No	L	B	D	QTY	Rate	Amount
Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @1.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification.item no.10.5.1 page no.67								
Walls	Sqm	2	4.1		1.6	13.12		
	Sqm	2	2.7		1.6	8.64		
Bottom & top	Sqm	2	4.1		2.7	22.14		
Basic rate							590.00	
Item weightage 8%							47.20	
Total						**43.90**	**637.20**	**27973.08**
							TOTAL AMOUNT	**172402.72**

CERTIFICATE:

1. The work spot has been inspected and found to be necessary.
2. The estimate is prepared as per KPWD SR. of 2016-17 & Approved Rates.
3. The provisions were made in this estimate are necessary and adequate.
4. The works come under B.B.M.P. limits.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

26/6/19

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF HEAD ROOM, OVERHEAD TANK PROVIDING SANITARY WATER SUPPLY CONNECTIONS AND ELECTRICAL WORKS TO MARRIAGE COMMUNITY HALL BUILDING AT CHIKKABETTAHALLI IN WARD NO. 03

Septic Tank

							Est.Cost.Rs.	114804
Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
CSRB 2-2.5 : Excavation by manual means for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width in Hard Rock not exceeding 1.5 m. in depth including Stacking the excavated stuff from edges of excavation with lead upto 50m including cost of explosives, labour and HOM of equipment complete as per specifications. Specification. No. KBS 2.1.d / 2.3.4 / 2.18 / 2.19 (P.No. 5/I.No. 2.7)								
For Septic Tank	cum	1	3.20	2.70	1.80	15.55		
Basic rate							513.00	
Item weightage 8%							41.04	
Total						**15.55**	**554.04**	**8616.43**
CSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 Pg No.12 Item No 4.3								
For Septic Tank	Cum	1	3.20	2.70	0.10	0.86		
Basic rate							4867.00	
Item weightage 8%							389.36	
Total						**0.86**	**5256.36**	**4541.50**
CSRB 2.3 : **Filling available excavated earth** (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. No. KBS 2.9, Pg No.6, Item No.2.10								
Filling in								
Excavated earth	Cum	From SL no 1				**15.55**		
Bottom slab	Cum	1	3.20	2.70	0.15	-1.30		
Septic Tank walls	Cum	2	3.20	0.15	1.40	-1.34		
	Cum	2	2.40	0.15	1.40	-1.01		
Baffles	Cum	2	2.40	0.15	0.80	-0.58		
Cover slab	Cum	1	3.20	2.70	0.15	-1.30		
Basic rate							127.00	
Item weightage 8%							10.16	
Total						**10.03**	**137.16**	**1375.99**
CSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping etc.**, and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, Pg No 15, Item No 4.31								

Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
Septic Tank walls								
Septic Tank walls	Sqm	4	1.40		1.40	7.84		
	Sqm	4	3.20		1.40	17.92		
Baffles	Sqm	4	2.90		0.80	9.28		
Basic rate							293.00	
Item weightage 8%							23.44	
Total						**35.04**	**316.44**	**11088.06**

KSRB 4-6.3 : Providing and removing **centering, shuttering, strutting, propping etc.**, and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2, Pg No 15, Item No 4.18

Septic Tank								
Septic Tank Top	Sqm	1	3.20	2.70		8.64		
Slab								
Basic rate							313.00	
Item weightage 8%							25.04	
Total						**8.64**	**338.04**	**2920.67**

KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS:456-1999 Reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and First Floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, curing blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.KBS 4.1, 4.6, Pg No 13, Item no.4.10

Septic Tank								
Inlet sump								
Bottom slab	Cum	1	3.20	2.70	0.15	1.30		
Septic Tank walls	Cum	2	3.20	0.15	1.40	1.34		
	Cum	2	2.40	0.15	1.40	1.01		
Baffles	Cum	2	2.40	0.15	0.80	0.58		
Cover slab	Cum	1	3.20	2.70	0.15	1.30		
Basic rate							6221.00	
Item weightage 8%							497.68	
Total						**5.52**	**6718.68**	**37087.11**

KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.
Specification No. KBS 4.6.3 Pg No.17 Item No.4.46.2

Septic Tank	Cum	Concrete Quantity	5.52		
	kg	Steel assumed 130 Kg/Cum of Concrete	717.6		

Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	tonne					**0.72**		
Basic rate							60607.00	
Amt: weightage 8%							4848.56	
Total						**0.72**	**65455.6**	**46970.91**
KSRB 12-6.1 : Providing 20mm square M.S footrest and fixing in manhole with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 12.4.6Pg No. Item no. 11.44								
For Septic Tank	No.s	4				4.00		
Basic rate							246.00	
Amt: weightage8%							19.68	
Total						**4.00**	**265.68**	**1062.72**
KSRB 11-18-1.1 : Providing and fixing sand cast iron soil waste and vent pipes 100mm dia with yarn soaked in cement slurry and cement mortar 1:2 including cost of materials, labour, testing complete as per specifications. KBS 11-1.10 Pg no:83.Item no12.47								
For Septic Tank								
Vent Pipe	**m**	1			1.50	1.50		
Basic rate							704.00	
Amt: weightage 8%							56.32	
Total						**1.50**	**760.32**	**1140.48**
							TOTAL AMOUNT	**114803.87**

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017 and approved rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer.
BBMP

28/6/19

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF HEAD ROOM, OVERHEAD TANK PROVIDING SANITARY WATER SUPPLY CONNECTIONS AND ELECTRICAL WORKS TO MARRIAGE COMMUNITY HALL BUILDING AT CHIKKABETTAHALLI IN WARD NO. 03

Planning Works

							Est.Cost.Rs.	946309
Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to I.S.I./ISO/SSI specifications. (P.No. 258/ I.No. 37.58 of CSR 2016-17)								
	L	2	2000			4000		
Basic rate							6.00	
Item weightage 8%							0.48	
Total						**4000.00**	**6.48**	**25920.00**
KSRB 13-6.1-2 : Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3. (P.No.91/ I.No. 13.24 of CSR 2016-17).								
Ground Floor	Each	12				14		
First Floor	Each	2				2		
Second floor	Each	7				7		
Basic rate							243	
Item weightage 8%							19.44	
Total						**23**	**262.44**	**6036.12**
KSRB 11-6 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, S-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre white glazed / vitreous china clay low level, flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11.(page no 77.Item no.12.6)								
Ground floor	Each	8				8		
First floor	Each	2				2		
Second floor	Each	7				7		
Basic rate							4955	
Item weightage 8%							396.40	
Total						**17**	**5351.4**	**90973.80**
KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (page no 80.Item no.12.23)								
Ground floor	unit	8				8		
First floor	unit	2				2		
Second floor	unit	7				7		
Basic rate							3886	
Item weightage 8%							310.88	
Total						**17**	**4196.88**	**71346.96**
KSRB 11-7.4 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm in the range of four with 10 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11(page no 78.Item no.12.10)								
Ground Floor	unit	5				5		

Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
Basic rate							6810	
Item weightage 8%							544.80	
Total						**5**	**7354.8**	**36774.00**
KSRB 11-17-1 : Providing and fixing C.P. brass towel rail 740mm length, 20mm dia with C.P brackets, fixed to wooden cleats with C.P. brass screws including cost of materials, labour complete as per specifications.(page no 01,Item no.12.45)								
First Floor	unit	2				2		
Second floor	unit	15				15		
Basic rate							783	
Item weightage 8%							62.64	
Total						**17**	**845.64**	**14375.88**
KSRB 11-15.5 : Providing and fixing 1500x450mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. (P.No.83. I.No. 12.43 of PWD SR 2016-17)								
First Floor	unit	2				2		
Second floor	unit	15				15		
Basic rate							783	
Item weightage 8%							62.64	
Total						**17**	**845.64**	**14375.88**
Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern as per 14-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 12.5cms x 7.5cms(P.No.88. I.No. 12.113.2 of PWD SR 2016-17)								
	Each	39				39		
Basic rate							285	
Item weightage 8%							22.80	
Total						**39**	**307.8**	**12004.20**
Constructing brick masonry inspection chamber 600x600mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 600x600mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 600x600mm. (P.No. 73/ I.No.11.50.1 of PWD SR 2016-17)								
	Nos	15				15		
Basic rate							8954	
Item weightage 8%							716.32	
Total						**15**	**9670.32**	**145054.80**
KSRB 03-6.2-4 : Providing and fixing in position brass stop cock of approved quality 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3(P.No. 91/ I.No.13.29.1 of PWD SR 2015-16)								
	Each	12				12		
Basic rate							158	
Item weightage 8%							12.64	
Total						**12**	**170.64**	**2047.68**

No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
12	KSRB13-6.3-4 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3(P.No. 92/ I.No.13.35 of PWD SR 2016-17)								
		Each	12				12		
	Basic rate							973	
	Area weightage 8%							77.84	
	Total						**12**	**1050.84**	**12610.08**
Internal Sewage System									
13	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5(P.No. 5/ I.No.2.3 of PWD SR 2016-17)								
	for pipeline	Cum	2	28	1	0.6	33.6		
	for Trench	Cum	2	28	1	0.6	33.6		
	Basic rate							189	
	Area weightage 8%							15.12	
	Total						**67.2**	**204.12**	**13716.86**
14	KSRB 12-1.2 : Providing and laying in position to required level or slope 150mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications. Specification No. KBS 12.2.5 / 12.7 (P.No. 170/ I.No.11.2 of PWD SR 2016-17)								
		Rmt	35				35		
	Basic rate							353	
	Area weightage 8%							28.24	
	Total						**35**	**381.24**	**13343.40**
15	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications. (P.No. 6/ I.No2.11 of PWD SR 2016-17)								
		Cum	From sl.no 13				67.2		
	Basic rate							76	
	Area weightage 8%							6.08	
	Total						**67.2**	**82.08**	**5515.78**
16	Providing stoneware gully trap of approved quality and make fixing in M-15 and plastering with CM 1:3 wherever necessary.(Rate includes cost of all materials, fixtures and lead). - 15cms x 10cms(P.No.88. I.No. 12.112.2 of PWD SR 2016-17)								
		Each	15				15		
	Basic rate							270	
	Area weightage 8%							21.60	
	Total						**15**	**291.6**	**4374.00**
17	KSRB13-1.6 : Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 50mm dia nominal bore with fittings (medium grade weight 5.24kg/mtr) B class including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.14 / 13.8 (P.No.90. I.No. 13.6 of PWD SR 2016-17)								
		Rmt	40				40		
	Basic rate							510	
	Area weightage 8%							40.80	
	Total						**40**	**550.8**	**22032.00**

No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
18	KSRB13-7.1-4 : Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.10 / 13.13(P.No.93. I.No. 13.55 of PWD SR 2016-17)								
		Nos	**4**				**4**		
	Basic rate							1496	
	Area weightage 8%							119.68	
	Total						**4**	**1615.68**	**6462.72**
19	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 50mm nominal OD pipes. (P.No. 96/I.No. 13.85.6)								
		m		110			110		
	Basic rate							440	
	Area weightage 8%							35.20	
	Total						**110**	**475.2**	**52272.00**
20	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 25mm nominal OD pipes. (P.No. 96/I.No. 13.85.3)								
		m		110			110		
	Basic rate							170	
	Area weightage 8%							13.60	
	Total						**110**	**183.6**	**20196.00**
21	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 110mm outer dia (P.No. 75/I.No. 11.56.2)								
		m		170			170		
	Basic rate							688	
	Area weightage 8%							55.04	
	Total						**170**	**743.04**	**126316.80**
22	Providing and fixing to wall, ceiling and floor unplasticised PVC pipes 10.00 kgf/sq.cm working pressure chemp plast / Wavin or equivalent make with pipe fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials,with 160mm outer dia								
		m		160			160		
	Basic rate							1450	
	Area weightage 8%							116.00	
	Total						**160**	**1566**	**250560.00**
							Total		**946308.96**

CERTIFICATES

1 The work spot has been inspected and found to be necessary.

2 This estimate is prepared as per KPWD SR. of 2016-17 & Approved Rates.

4 This works come under B.B.M.P. limits.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

28/6/19

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF HEAD ROOM, OVERHEAD TANK PROVIDING SANITARY WATER SUPPLY CONNECTIONS AND ELECTRICAL WORKS TO MARRIAGE COMMUNITY HALL BUILDING AT CHIKKABETTAHALLI IN WARD NO. 03

5 Electrical Works

Est.Cost.Rs. 2990000.00

Sl.no	SR Page & SL No	Description of Work	Unit	Qty.	Rate	Amount
1	57/1.2.1	Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 25mm dia 2mm thick	Mtrs	200	43.00	8600.00
2	57/1.2.2	25mm dia 2mm thick	Mtrs	650	57.00	37050.00
3	2/1.3.1	Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.19/20mm dia 2mm thick	Mtrs	85	56.00	4760.00
4	2/1.3.2	25mm dia 2mm thick	Mtr	90	58.00	5220.00
5	3/1.5.2	25mm deep junction box	Each	100	91.00	9100.00
6	3/1.12	Supplying And Fixing Metal Fan Box with Round Hook.	Nos	45	92.00	4140.00
7	15/3.5.1	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 1-3Way	Nos	14	91.00	1274.00
8	15/3.5.2	4-5Way	Nos	10	98.00	980.00
9	15/3.5.4	8Way	Nos	20	140.00	2800.00
10	15/3.5.5	10-12Way	Nos	19	159.00	3021.00
11	15/3.5.6	16Way	Nos	7	172.00	1204.00
12	16/3.6.1	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.1 to 3 Module	Nos	14	109.00	1526.00
13	16/3.6.2	4 Module	Nos	10	122.00	1220.00
14	16/3.6.4	8 Module	Nos	20	200.00	4000.00
15	16/3.6.5	10 Module	Nos	19	227.00	4313.00
16	16/3.6.6	12 Module	Nos	7	267.00	1869.00